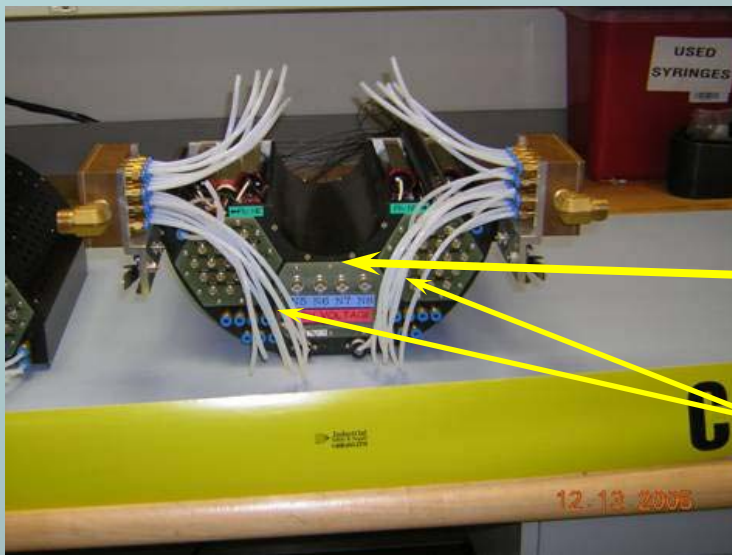
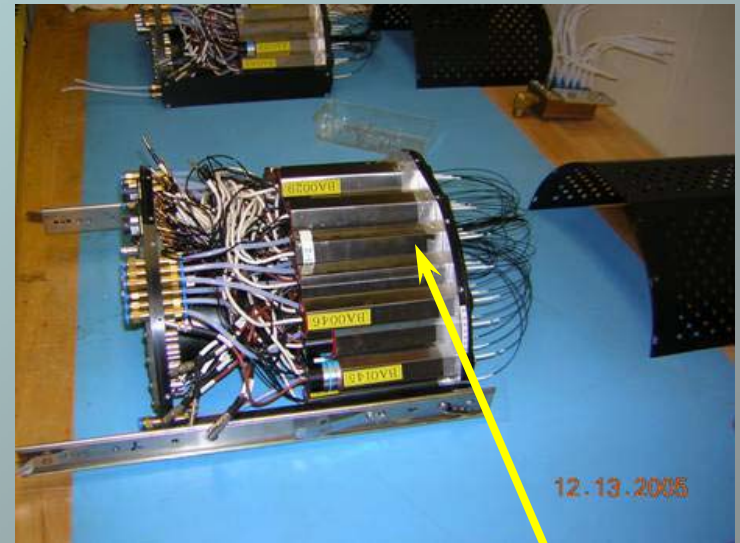


Water in Dry Air System

Kensuke Homma has concluded his inspection and tests and determined that the BBC North & South are operational and ready for Run 7



BBC North



BBC South

Water found in all tygon tubes: drained and dried

Water in Dry Air System

From Ring air

Buffer Tank

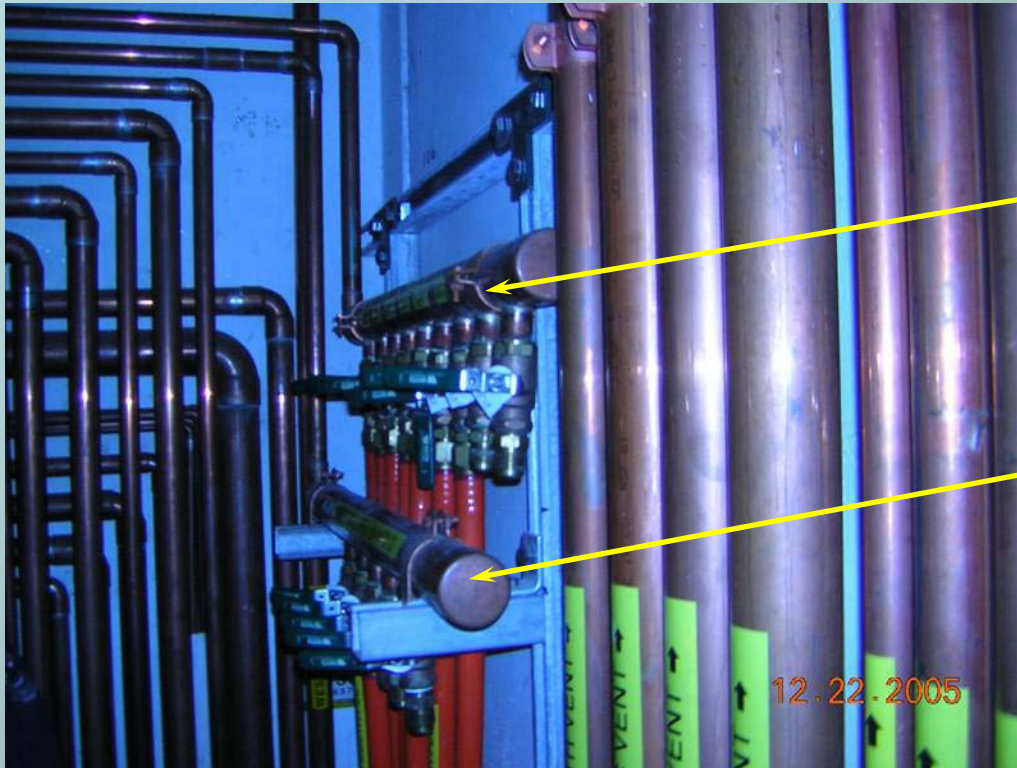


To mixing house

Timed drain to be added



Water in Dry Air System

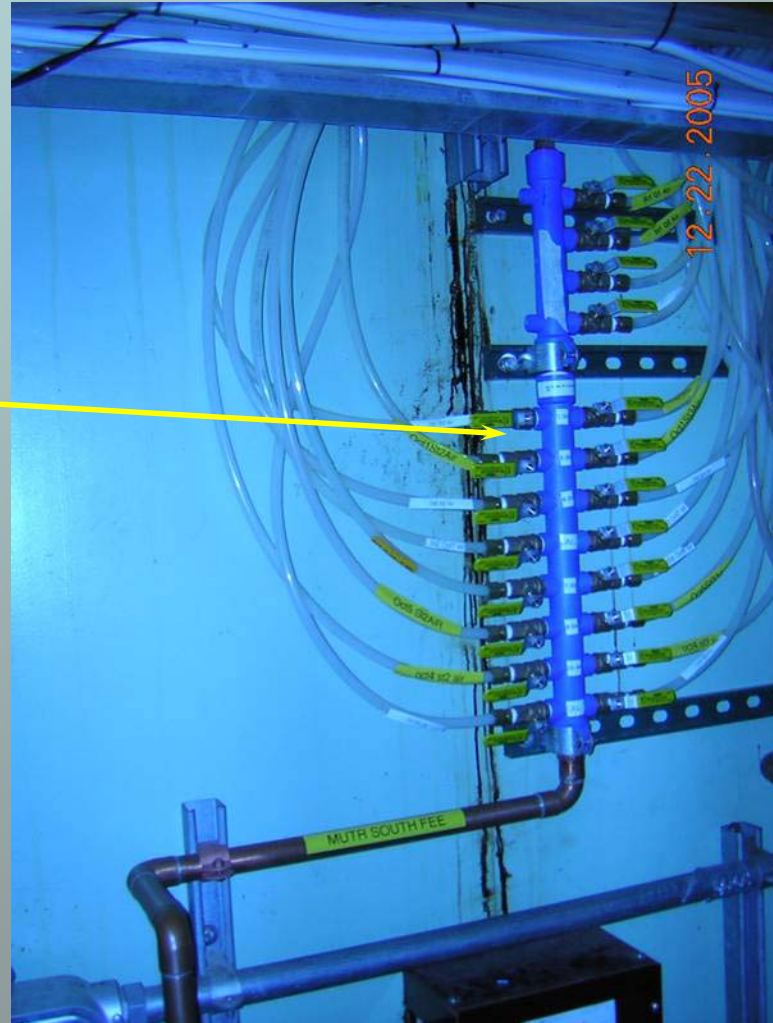


Supply manifold to MMN FEE & MMN anode purge and to MMS anode purge. Water came through here. All lines back to mixing house and from here to FEE and Anode purge manifolds have been Blown out.

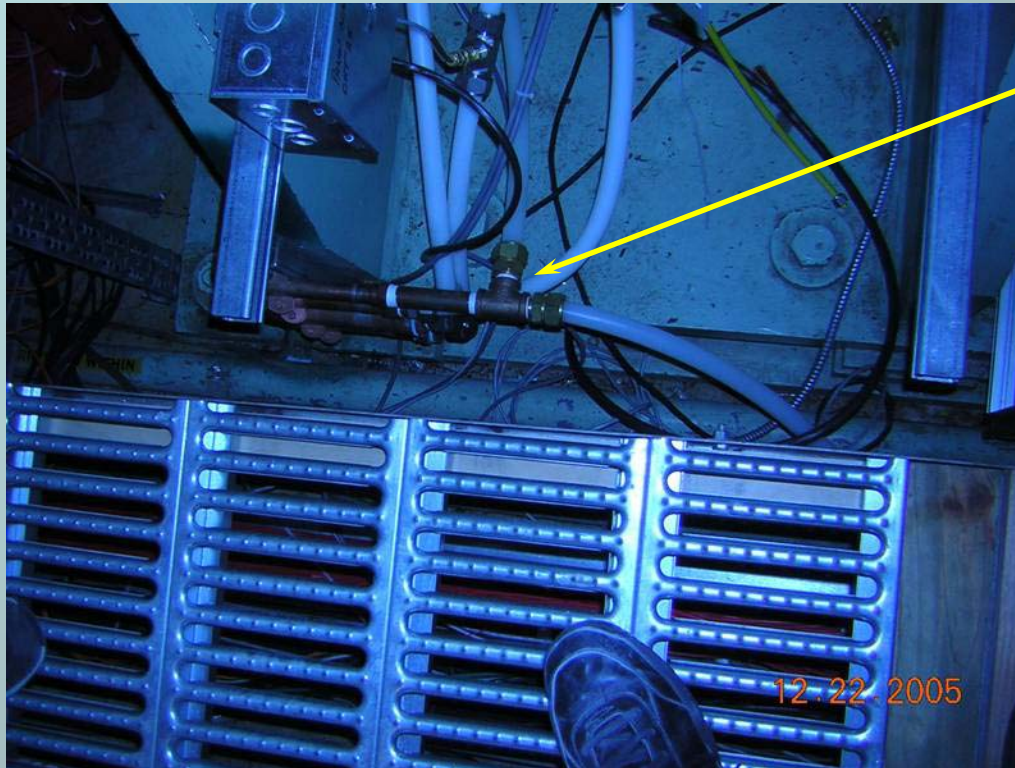
Supply manifold for MMS FEE. This manifold was turned off; no Water came past here. Line back to mixing house has ben blown out

Water in Dry Air System

MMS FEE tree
Was isolated from
water no corrective
action necessary

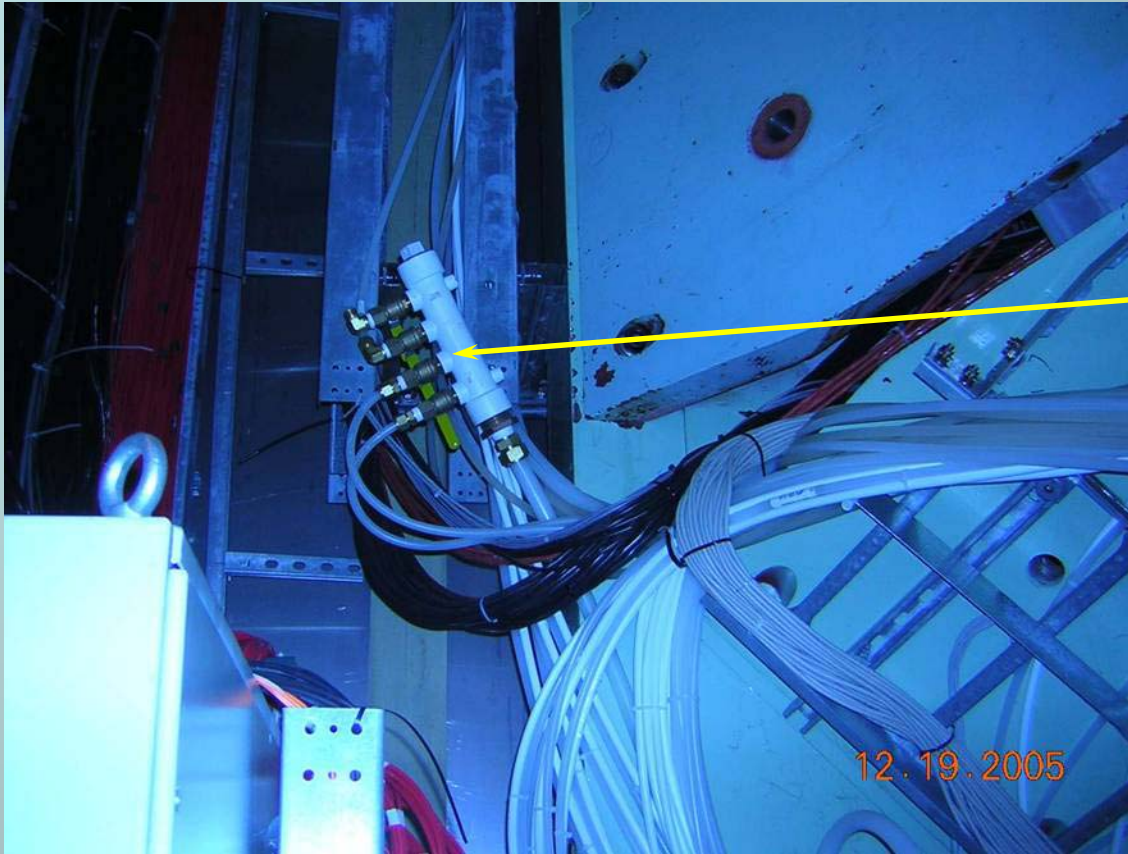


Water in Dry Air System



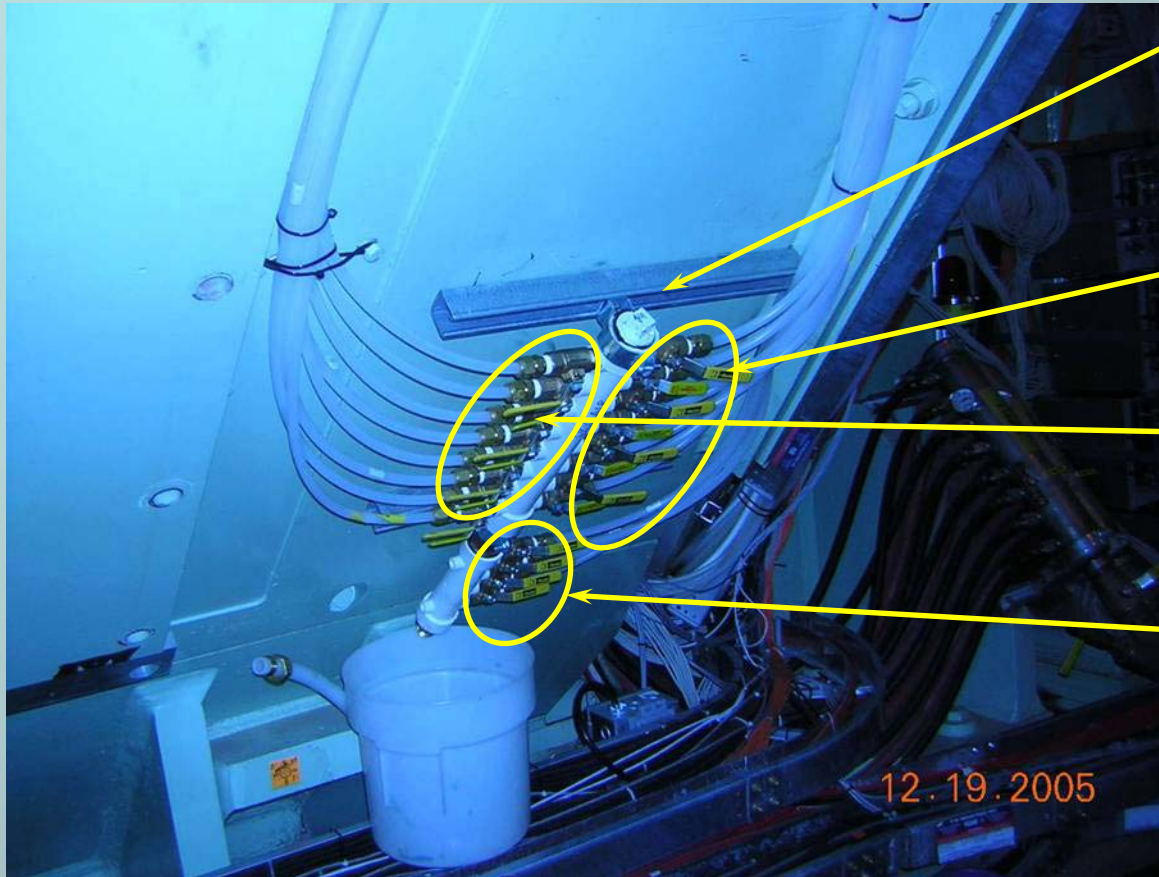
MMN supply air branches to MMN FEE and MMN chamber anode purge systems. Water observed in both branches at this point.

Water in Dry Air System



MMN main supply manifold. 1 line each to stations 1, 2 and 3 chamber anode purge distribution manifolds. Another available line is capped. Each line will be individually vacuumed.

Water in Dry Air System



MMN FEE Tree (MMS is similar)

To Station 3 (each line goes to a distribution manifold for 1 octant)

To Station 2 (each line goes to a distribution manifold for 1 octant)

To Station 1

12.19.2005

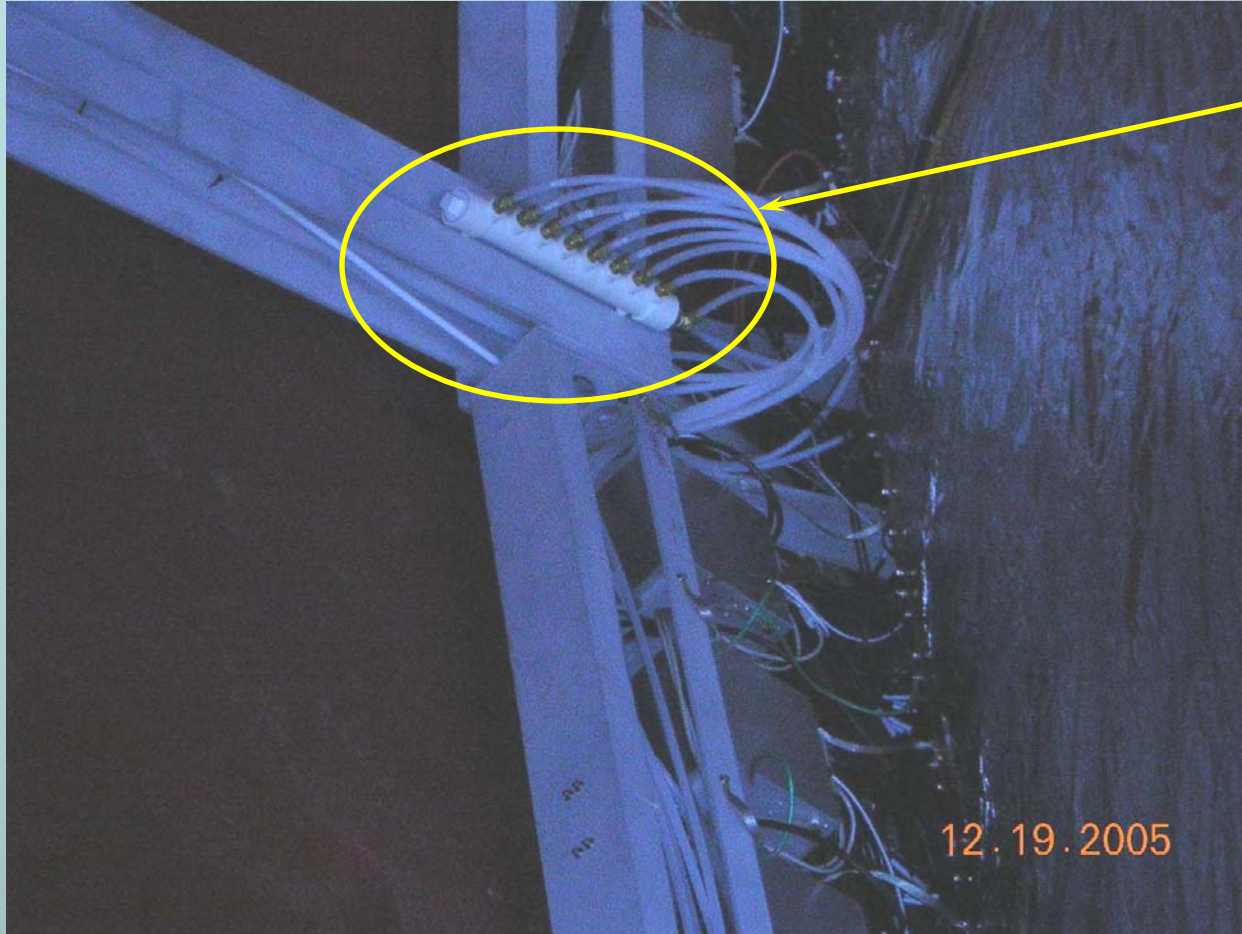
Was water in line leading to tree. No water found in tree. Each line has been individually vacuumed

Water in Dry Air System



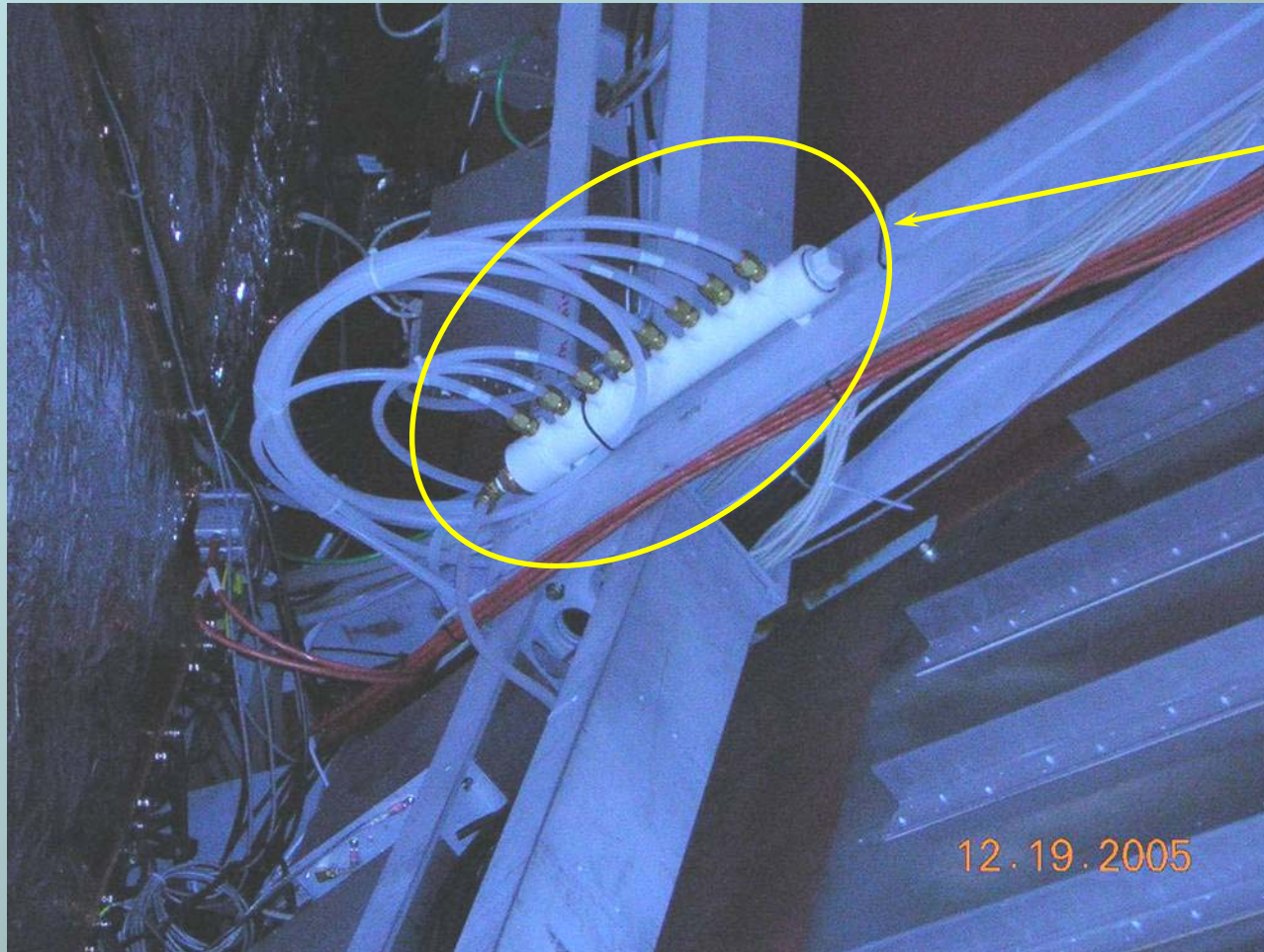
MMN station 2 chamber
anode purge distribution
manifold. 8 outlets, 1 for
each octant
No sign of water this far.

Water in Dry Air System



MMN station 3 west chamber anode purge distribution manifold. 8 outlets, 2 for each octant. Water found in supply line but no sign of water downstream of manifold. Supply line was vacuumed, manifold is inaccessible without scaffolding.

Water in Dry Air System



MMN station 3 east chamber anode distribution manifold. 8 outlets, 2 for each octant. Water found in supply line but no sign of water downstream of manifold. All lines have been vacuumed.

Water in Dry Air System



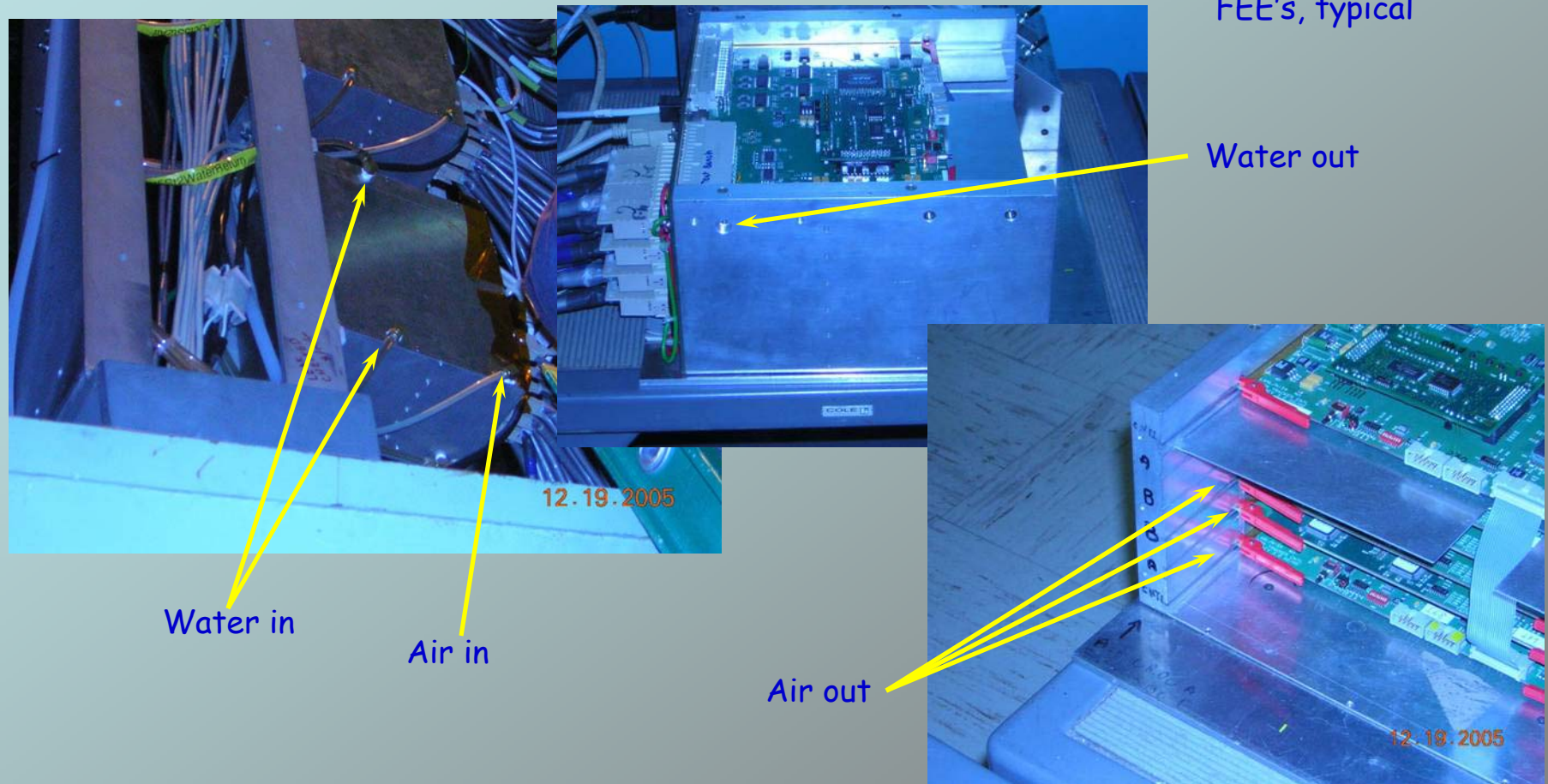
Vacuuming Station 3
west purge supply line to
manifold.

Water in Dry Air System

MMN station 1 east anode purge manifold. Water found in supply line but no water found downstream of manifold. Each line has been individually vacuumed.



Water in Dry Air System

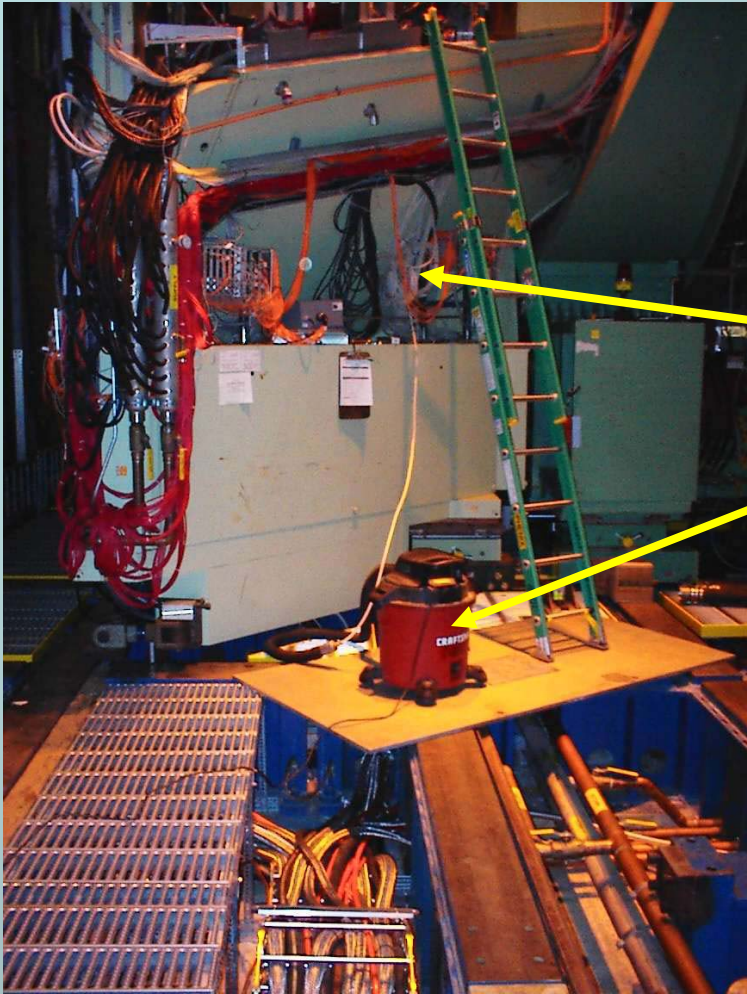


Water in Dry Air System



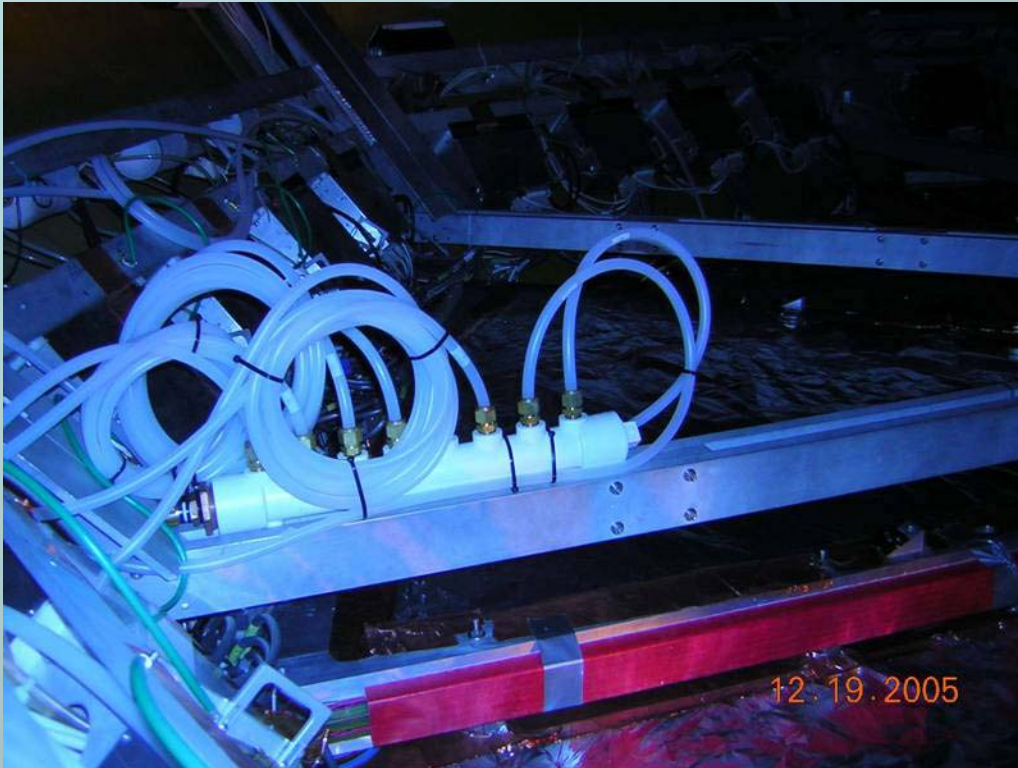
MMS station 1 east chamber anode distribution manifold. 8 outlets, 2 for each octant. Water detected in supply tube, but none detected in outlet coils. Tubes to be individually vacuumed.

Water in Dry Air System



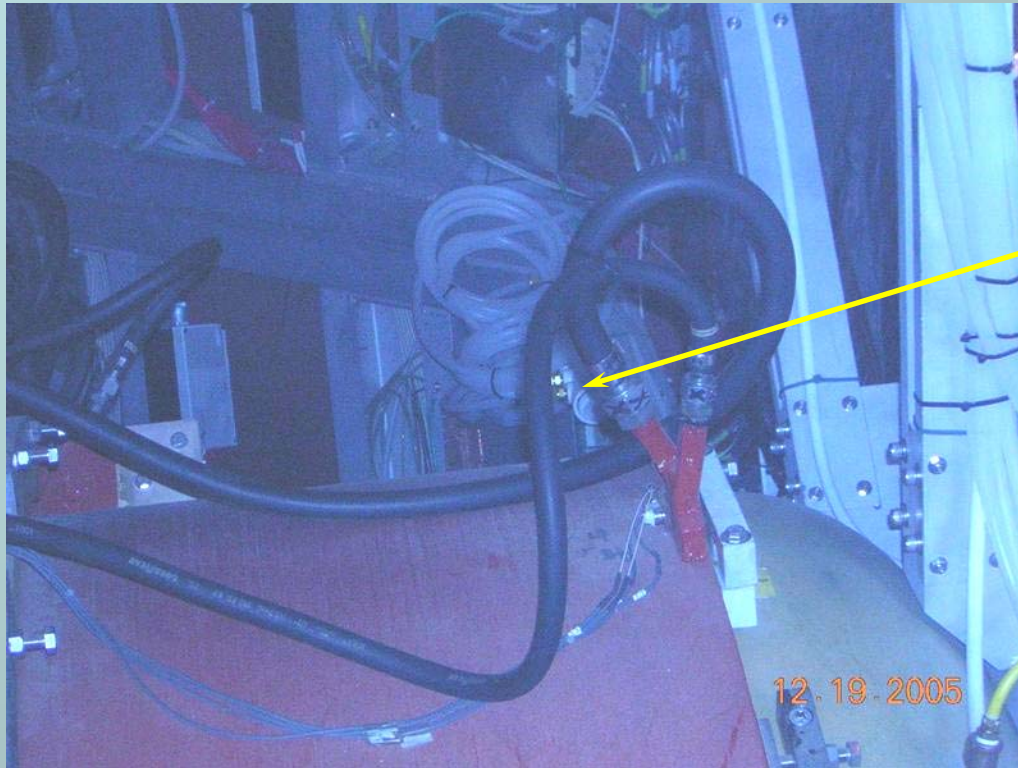
Vacuuming MMS Station
1 east purge supply line
to manifold.

Water in Dry Air System



MMS station 3 east chamber anode distribution manifold. 8 outlets, 2 for each octant. No sign of water this far.

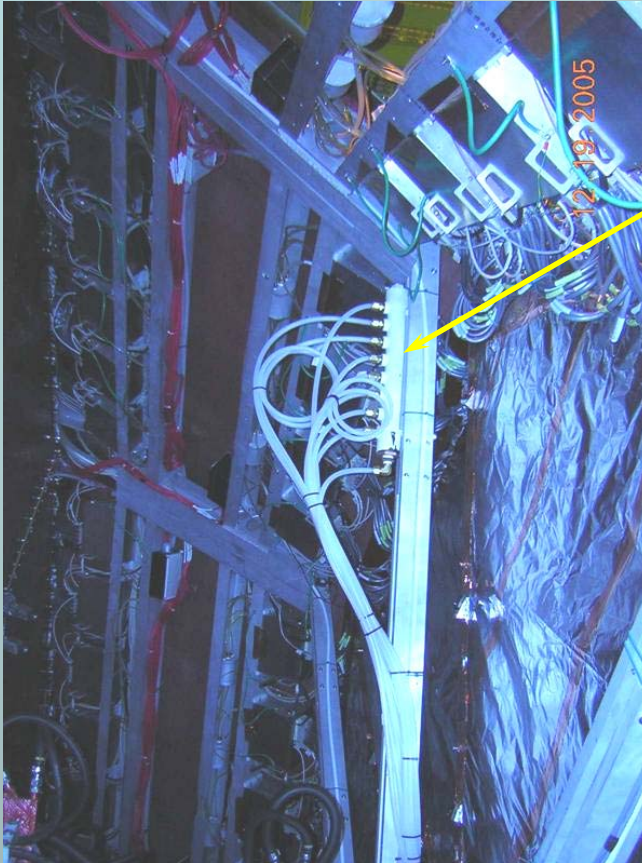
Water in Dry Air System



MMS station 3 west chamber anode distribution manifold. 8 outlets, 2 for each octant. No sign of water beyond manifold.

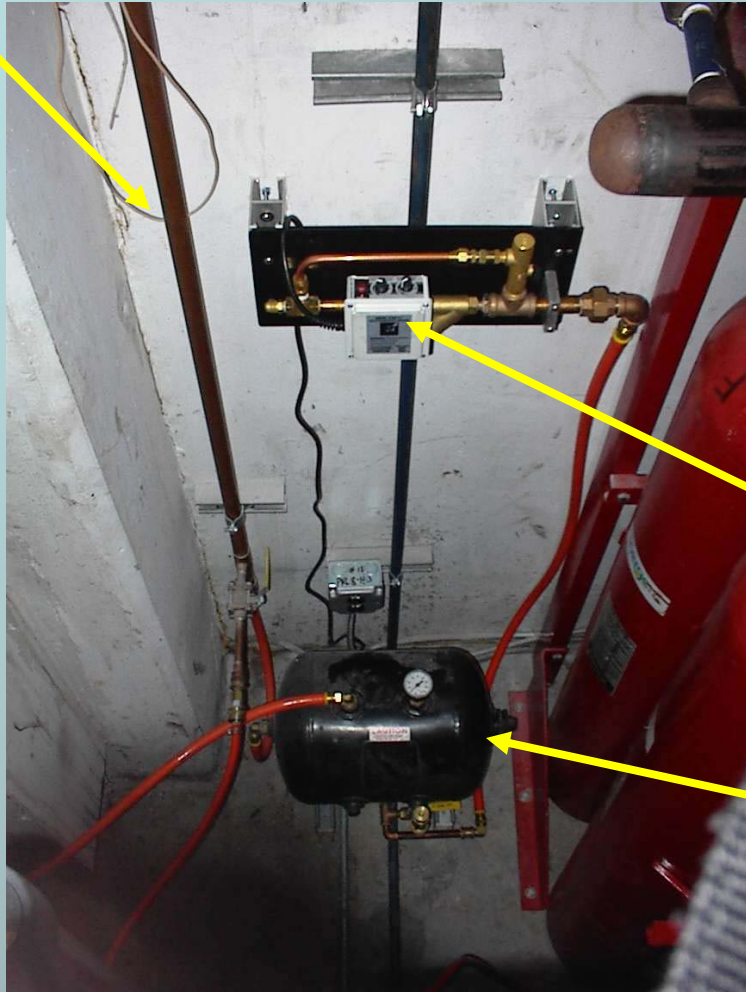
Water in Dry Air System

MMS station 2 chamber anode purge distribution manifold. 8 outlets, 1 for each octant. No sign of water this far.



Water in Dry Air System

Air supply



New timed blowoff system to trap water and remove it from ring air. (System shown is for gas leak detection system in AH. Similar system is installed in RHIC ring before air supply is routed to mixing house.)

Timed purge valve

Holding tank

Water in Dry Air System

Plan to remediate water in dry air system

1. BBC lines have been dismantled and blown out with nitrogen and CO₂. Mass Flow Meters are going out for repair/recalibration.
2. Main supply lines to MuTr have been blown out with N₂/CO₂. Visual inspection of accessible air lines in MMS & MMN has been completed.
3. Some water was observed in south anode purge supply lines, north anode purge supply lines, and north FEE supply line. These will be vacuumed

Plan to remediate water in dry air system

Water in Dry Air System

3. Systematic vacuuming of lines to each individual North FEE octant supply line with 4.5 hp shop vacs is underway with good results. This method will be applied to each of the 20 lines for ~1 hour each. The same procedure is underway for all the accessible anode purge lines for MMS and MMN.
4. Confined space training renewal for most PHENIX techs is complete. Remaining techs to be trained in next scheduled session (Thurs. Jan. 5 at 1:30 PM) [Please note: Confined space training is good for 12 months. MuTr experts check your status on confined space training if you plan on going in when you get here.]
5. After all accessible lines are as dry as possible, dry gas (not house air again) purge on all lines will be run through all lines. MuTr experts may then power up low and high voltage to determine if electronics have withstood the flood.